GEORGIA INSTITUTE OF TECHNOLOGY — OFFICE OF CONTRACT ADMINISTRATION

PROJECT ADMINISTRATION DATA SHEET

[x] ORIGINAL [ ] REVISION NO. _____

Project No. A-3900 GTRI/~~GTEx~~ DATE 7 / 26 /84

Project Director: William Ewing ~~School/~~Lab EES/EDL

Sponsor: Franklin Property Company/Peachtree Northeast Corporation; Atlanta, GA 30339

Type Agreement: Research Project Agreement A-3900

Award Period: From 7/17/84 To 9/30/84 (Performance) 10/17/84 (Reports)

Sponsor Amount:	This Change	Total to Date
Estimated: $		$ 1,648.81
Funded: $		$ 1,648.81

Cost Sharing Amount: $ n/a Cost Sharing No: _____

Title: Building Evaluation

ADMINISTRATIVE DATA OCA Contact Dennis Farmer x4820

1) Sponsor Technical Contact:

2) Sponsor Admin/Contractual Matters:

Mr. Barry D. Stocker
Franklin Property Company
1000 Circle 75 Parkway, Suite 075
Atlanta, GA 30339
(404) 952-7575

Defense Priority Rating: n/a Military Security Classification: n/a

(or) Company/Industrial Proprietary: n/a

RESTRICTIONS

See Attached n/a Supplemental Information Sheet for Additional Requirements.

Travel: Foreign travel must have prior approval — Contact OCA in each case. Domestic travel requires sponsor approval where total will exceed greater of $500 or 125% of approved proposal budget category.

Equipment: Title vests with none proposed.

COMMENTS:

Sponsor I.D. #01.255.000.84.005

COPIES TO:

Project Director
Research Administrative Network
Research Property Management
Accounting

Procurement/EES Supply Services
Research Security Services
Reports Coordinator (OCA)
Research Communications (2)

GTRI
Library
Project File
Other Newton

FORM OCA 4:383

GEORGIA INSTITUTE OF TECHNOLOGY OFFICE OF CONTRACT ADMINISTRATION

SPONSORED PROJECT TERMINATION/CLOSEOUT SHEET

Date 11/27/84

Project No. A-3900 ~~XXXXX~~Lab EDL

Includes Subproject No.(s) None

Project Director(s) William Ewing GTRC / ~~XXX~~

Sponsor Franklin Property Company/Peachtree Northeast Corporation, Atlanta, GA 30339

Title Building Evaluation

Effective Completion Date: 9/30/84 (Performance) 10/17/84 (Reports)

Grant/Contract Closeout Actions Remaining:

- [ ] None
- [x] Final Invoice or Final Fiscal Report
- [ ] Closing Documents
- [ ] Final Report of Inventions
- [ ] Govt. Property Inventory & Related Certificate
- [ ] Classified Material Certificate
- [ ] Other

Continues Project No. Continued by Project No.

COPIES TO:

Project Director
Research Administrative Network
Research Property Management
Accounting
Procurement/EES Supply Services
Research Security Services
Reports Coordinator (OCA)
Legal Services
Library
GTRC
Research Communications (2)
Project File
Other M. Heyser
A. Jones

A-3900

Georgia Institute of Technology
ENGINEERING EXPERIMENT STATION
Atlanta, Georgia 30332

September 10, 1984

Subject: Project A-3900, Final Report

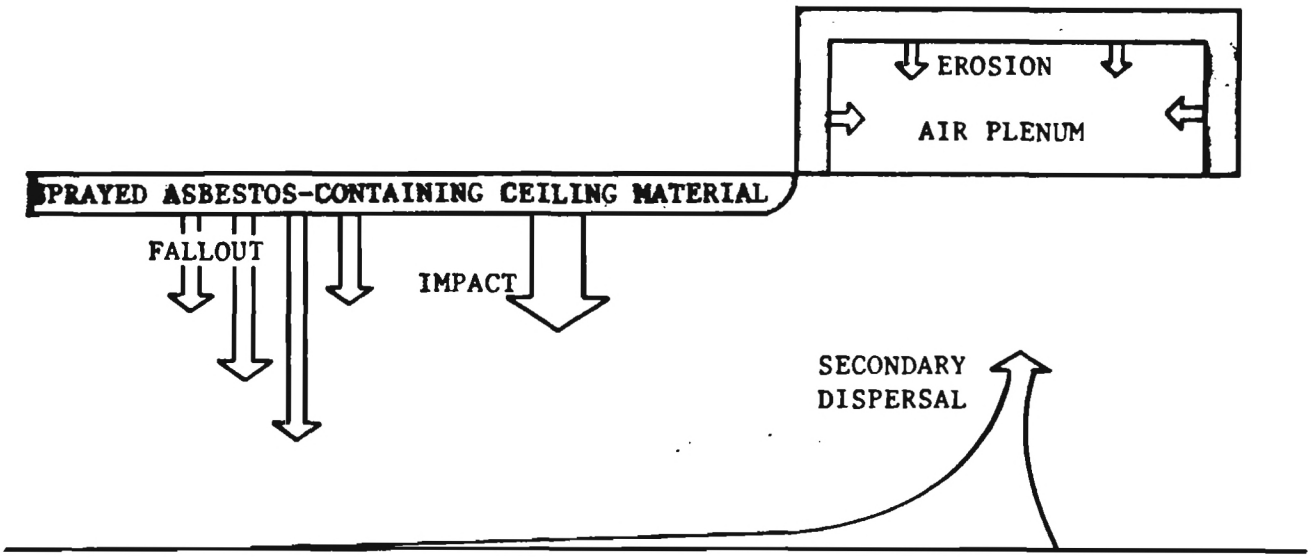
Dear Mr. Stocker:

The samples collected from your facility on July 9, 1984 have been analyzed as requested. The samples were collected by William M. Ewing and Eva M. Clay of Georgia Tech's Environmental Health and Safety Division. These samples were hand carried to Georgia Tech's Environmental Health Laboratory and analyzed for asbestos content. The results of each analysis are attached. The analytical methodology employed was polarized light microscopy (PLM) with dispersion staining.

Briefly, the results indicate that the spray-applied fireproofing at the facility contains chrysotile asbestos. The concentration of chrysotile averaged approximately 15%. Asbestos was not detected in two settled dust samples collected from suite 235 and the fifth floor telephone equipment room. However, settled dust from above the sheetrock ceiling of the fifth floor contained 30% chrysotile asbestos.

Subjective observations indicated the material to be intact, except on the top floor where water damage and previous mechanical work has disturbed the material. Fortunately, this floor has a ducted supply and return air handling system. This fact, coupled with the sheetrock drop ceiling reduces the opportunity for contamination of the occupied spaces on this level. The other floors, however, have a recirculating system where the plenum (containing the fireproofing) handles supply and return air. Accordingly, should asbestos fibers (chrysotile) be released from the fireproofing due to water damage, impact, or deterioration, they would be carried into the occupied areas (see Figure 1).

The collection of bulk samples does not provide information concerning the actual airborne concentration of asbestos fibers in the building. This can best be determined through the use of electron microscopy, specifically transmission electron microscopy (TEM). While this provides data concerning airborne fiber



MODE	CAUSES	FREQUENCY	FIBER RELEASE RATE
FALLOUT/ EROSION	AIR MOVEMENT, VIBRATION, DETERIORATION	CONSTANT	LOW
IMPACT	MAINTENANCE, ACCIDENTAL IMPACT	OCCASIONAL	HIGH
SECONDARY DISPERSAL	USUAL ACTIVITY CUSTODIAL SERVICE	FREQUENT	LOW TO HIGH

MODES OF DISPERSAL

Figure 1.

concentrations during the sampling period it does not predict future airborne concentrations due to changes in building activity and the condition of the fireproofing. It is also very costly. The analytical fees alone would approximate $10,000 and probably require 2-3 months for completion.

Based on discussions with you regarding the intended use of this facility, air sampling with TEM analysis is not recommended. Since plans call for demolition of the structure, implementation of Operations and Maintenance procedures are appropriate until demolition.

> **RECOMMENDATION #1:** Operations and Maintenance procedures designed to minimize asbestos exposure during custodial and maintenance activities should be enforced.

A copy of a generic operations and maintenance plan is attached. Also attached is a copy of a sample respiratory protection program. The written respiratory protection program is required by OSHA (29 CFR 1910.134) whenever an employee is permitted or required to use a respirator.

Prior to demolition of any building containing asbestos, the EPA requires the asbestos-containing material to be removed properly. Such a project requires the assistance and guidance of persons experienced in asbestos abatement projects. Please do not hesitate to contact us if we may be of assistance at that time.

It has been a pleasure to provide this service to you and Company.

Sincerely,

William M. Ewing, CIH
Industrial Hygienist

WME:sek

Attachment

ANALYTICAL RESULTS

BULK SAMPLES,

PROJECT NO. A-3900

Lab ID Number	Sample Description	Analytical Results
8679	Fireproofing. First floor, sprayed-on deck above sheetrock ceiling in Office.	25% chrysotile asbestos, 2% cellulose, remainder is vermiculite and particulate.
8678	Fireproofing. Second floor, telephone/elevator equipment room. Sample collected from overhead crossbeam.	30% chrysotile asbestos, remainder is vermiculite and particulate.
8682	Fireproofing. Second floor, sprayed-on deck above sheetrock (crossbeam), suite 235.	10% chrysotile asbestos, 5% cellulose, remainder is vermiculite and particulate.
8680	Fireproofing. Third floor, sprayed-on vertical beam from vacant office adjacent suite 355.	10% chrysotile asbestos, remainder is vermiculite and particulate.
8676	Fireproofing. Fourth floor, sprayed-on deck above sheetrock ceiling in vacant office of suite 408.	5% chrysotile asbestos, 5% cellulose, remainder is vermiculite and particulate.
8677	Fireproofing. Fifth floor, sprayed-on beam at top of ladder in telephone equipment room.	5% chrysotile asbestos, remainder is vermiculite and particulate.
8683	Settled Dust. Second floor, from top of sheetrock ceiling in vacant office in suite 235.	10% cellulose in calcite and particulate.
8675	Settled Dust. Fifth floor, at base of ladder (floor) in telephone equipment room.	30% mineral wool, 5% cellulose, remainder is particulate.
8681	Settled Dust. Fifth floor, from top of drop ceiling.	30% chrysotile asbestos, 2% mineral wool in vermiculite and particulate.